

IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

Claims 1-15 (Canceled)

Claim 16 (New): A printer comprising:

a control unit having a first memory for storing image data generated based on print data received from an external apparatus; and

an engine unit having a second memory for storing the image data received from said control unit and a print engine for printing the image data stored in the second memory, wherein said control unit includes a transfer unit for transferring the image data read from the first memory to the second memory, and

wherein the transfer unit includes a third memory for storing the image data read from the first memory, and reads rotated image data from the third memory and transfers the rotated image data to the second memory.

Claim 17. (New): A printer according to claim 16, further comprising a parallel interface for connecting said control unit and said engine unit to each other.

Claim 18. (New): A printer according to claim 16, wherein the transfer unit includes a plurality of the third memories and wherein the transfer unit transfers one body of

image data from one of the plurality of third memories to the second memory, while other image data from the first memory is stored in another of the plurality of third memories.

Claim 19. (New): A control method carried out in a printer that comprises a control unit having a first memory for storing image data generated based on print data received from an external apparatus, and an engine unit having a second memory for storing the image data received from the control unit and a print engine for printing the image data stored in the second memory, said method comprising:

a storing step of storing the image data read from the first memory in a third memory;

a reading step of reading rotated image data from the third memory; and

a transferring step of transferring the rotated image data to the second memory.

Claim 20. (New): A method according to claim 19, wherein the printer further comprises a parallel interface for connecting the control unit and the engine unit to each other.

Claim 21. (New): A method according to claim 19, wherein the printer includes a plurality of the third memories, and wherein said transferring step transfers one image data from one of the plurality of third memories to the second memory, while said storing step stores another image data from the first memory in another of the plurality of third memories.

Claim 22. (New): A printer comprising:

a control unit having a first memory for storing image data generated based on

print data received from an external apparatus; and

an engine unit having a second memory for storing the image data received from said control unit and a print engine for printing the image data stored in the second memory, wherein said control unit includes a transfer unit for transferring the image data read from the first memory to the second memory, and

wherein the transfer unit includes a third memory for storing the image data read from the first memory, and reads rotated image data from the third memory and transfers the rotated image data to the second memory if image rotation is required, and reads the image data, without rotation, from the third memory and transfers the read image data to the second memory if image rotation is not required.

Claim 23. (New): A printer according to claim 22, further comprising a parallel interface for connecting said control unit and said engine unit to each other.

Claim 24. (New): A printer according to claim 22, wherein the transfer unit includes a plurality of the third memories and wherein the transfer unit transfers one body of image data from one of the plurality of third memories to the second memory, while other image data from the first memory is stored in another of the plurality of third memories.

Claim 25. (New): A printer according to claim 22, wherein said engine unit informs said control unit whether the rotation is required.

Claim 26. (New): A control method carried out in a printer that comprises a control unit having a first memory for storing image data generated based on print data received from an external apparatus, and an engine unit having a second memory for storing the image data received from the control unit and a print engine for printing the image data stored in the second memory, said method comprising:

a storing step of storing the image data read from the first memory in a third memory;

a transferring step of reading rotated image data from the third memory and transferring the rotated image data to the second memory if image rotation is required, and reading the image data, without rotation, from the third memory and transferring the read image data to the second memory if image rotation is not required.

Claim 27. (New): A method according to claim 26, wherein the printer further comprises a parallel interface for connecting the control unit and the engine unit to each other.

Claim 28. (New): A method according to claim 26, wherein the printer includes a plurality of the third memories, and wherein said transferring step transfers one body of image data from one of the plurality of third memories to the second memory, while said storing step stores other image data from the first memory in another of the plurality of third memories.

Claim 29 (New): A method according to claim 26, further comprising the step of informing from the engine unit to the control unit whether the rotation is required.